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Substitute for form 1449/PTO			Complete if Known		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)			Application Number	10/577,337-Conf. #5138	
			Filing Date	April 28, 2006	
			First Named Inventor	Hitoshi NAOE	
			Art Unit	2462	
			Examiner Name	X. S. Wong	
Sheet	1	of	8	Attorney Docket Number	1248-0867PUS1

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	AA*	US-2005/0271022-A1	12-08-2005	Osawa et al.	
	AB*	US-2005/0254456-A1	11-17-2005	Sakai et al.	
	AD*	US-6,297,802-B1	10-02-2001	Fujioka	
	AE*	US-2004/0170134-A1	09-02-2004	Furuyama et al.	
	AF*	US-2004/0054796-A1	03-18-2004	Kikuchi et al.	
	AG*	US-5,585,952-A	12-17-1996	Imai et al.	
	AH*	US-2002/0065065-A1	05-30-2002	Lunsford et al.	
	AI*	US-2003/0114107-A1	06-19-2003	Aoyagi	
	AJ*	US-6,154,298-A	11-28-2000	Tamagawa et al.	
	AK*	US-2006/0250973-A1	11-09-2006	Trott	
	AL*	US-2005/0071733-A1	03-31-2005	Fukae et al.	
	AM*	US-7,069,059-B2	06-27-2006	Osawa et al.	
	AN*	US-6,842,433-B2	01-11-2005	West et al.	
	AO*	US-6,735,245-B1	05-11-2004	Palm et al.	
	AP*	US-2007/0064733-A1	03-22-2007	Osawa et al.	
	AQ*	US-2002/0196812-A1	12-28-2002	Yamaguchi et al.	
	AR*	US-4,957,348-A	09-18-1990	May	
	AS*	US-5,557,634-A	09-17-1996	Balasubramanian et al.	

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)			
	BA	JP-10-145452-A	05-29-1998		✓
	BB	JP-5-175985-A	07-13-1993		✓
	BC	JP-4-291556-A	10-15-1992		ABS
	BD	JP-2000-196622-A	07-14-2000		✓
	BE	JP-2003-263403-A	09-19-2003		✓
	BF	JP-10-308791-A	11-17-1998		✓

Examiner Signature	/Xavier S. Wong/	Date Considered	06/05/2010
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		Number-Kind Code ² (if known)			
	AT*	US-7,366,532-B2	04-29-2008	Khawand et al.	
	AU*	US-7,411,974-B2	08-12-2008	Aftar et al.	
	AV*	US-5,509,121-A	04-16-1996	Nakata et al.	
	AW*	US-7,403,543-B2	07-22-2008	Lee et al.	
	AX*	US-2002/0196782-A1	12-26-2002	Furukawa et al.	
	AY*	US-2004/0111535-A1	06-10-2004	Boucher et al.	
	AZ*	US-2005/0025188-A1	02-03-2005	Numakura et al.	
	AA1*	US-2008/0008165-A1	01-10-2008	Ikeda et al.	
	AB1*	US-5,448,561-A	09-05-1995	Kaiser et al.	
	AC1*	US-6,034,962-A	03-07-2000	Ohno et al.	
	AD1*	US-2001/0007137-A1	07-05-2001	Suomaki et al.	
	AE1*	US-2004/0042487-A1	03-04-2004	Ossman	
	AF1*	US-2004/0186928-A1	09-23-2004	Fukunaga et al.	
	AG1*	US-2005/0138226-A1	06-23-2005	Tateyama et al.	
	AH1*	US-6,839,564-B2	01-04-2005	Sutinen et al.	
	AI1*	US-6,178,181-B1	01-23-2001	Gliho	
	AJ1*	US-2009/0190502-A1	07-30-2009	Mameda et al.	
	AK1*	US-7,363,534-B1	04-22-2008	Krishnamurthy et al.	
	AL1*	US-5,515,508-A	05-07-1996	Pettus et al.	

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		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
	BG	JP-2003-69610-A	03-07-2003			✓
	BH	JP-11-154908-A	06-08-1999			✓
	BI	JP-2002-158730-A	05-31-2002			✓
	BJ	JP-2003-218936-A	07-31-2003			✓
	BK	JP-10-107737-A	04-24-1998			✓
	BL	JP-10-126758-A	05-15-1998			✓

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		Number-Kind Code ² (if known)			
	AM1*	US-2005/0014468-A1	01-20-2005	Salokannel et al.	
	AN1*	US-2003/0107651-A1	06-12-2003	Chen et al.	
	AO1*	US-5,708,110-A	01-06-1998	Nykanen	
	AP1*	US-6,006,294	12-21-1999	Kurihara	
	AQ1*	US-2006/0291502-A1	12-28-2006	Kalofonos	
	AR1*	US-2005/0091412-A1	04-28-2005	Pinkerton et al.	
	AS1*	US-2003/0169744-A1	09-11-2003	Elzur	
	AT1*	US-6,865,687-B1	03-08-2005	Ichimi	
	AU1*	US-2004/0080537-A1	04-29-2004	Adler	
	AV1*	US-20010044914	11-22-2001	Nakano et al.	
	AW1*	US-5,450,412-A	09-12-1995	Takebayashi et al.	
	AX1*	US-5,563,943	10-08-1996	Takebayashi et al.	
	AY1*	US-5,764,643	06-09-1998	Takebayashi et al.	
	AZ1*	US-6,944,483-B1	09-13-2005	Motohashi	
	AA2*	US-5,638,373-A	06-10-1997	Takebayashi et al.	
	AB2*	US-6,411,813-B1	06-25-2002	Sano	
	AC2*	US-2005/0097191-A1	05-05-2005	Yamaki et al.	
	AD2*	US-2004/0218209-A1	11-04-2004	Hamaguchi et al.	
	AE2*	US-2008/0189422-A1	08-07-2008	Naoue et al.	

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		Country Code ⁴ -Number ⁴ -Kind Code ⁵ (if known)				
	BM	JP-10-98435-A	04-17-1989			✓
	BN	JP-2004-343246-A	12-02-2004			✓
	BO	JP-2003-258880-A	09-12-2003			✓
	BP	JP-2005-354652-A	12-22-2005			✓
	BQ	EP-0 886 410-A2	12-23-1998			
	BR	JP-2004-236108-A	08-19-2004			✓

Examiner Signature /Xavier S. Wong/	Date Considered	06/05/2010
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	AF2*	US-2008/0279560-A1	11-13-2008	Osawa et al.	
	AG2*	US-2008/0279562-A1	11-13-2008	Naoo et al.	
	AH2*	US-2008/0291941-A1	11-27-2008	Sakai et al.	
	AI2*	US-2008/0313518-A1	12-18-2008	Naoo et al.	
	AJ2*	US-2004/0170134-A1	09-02-2004	Furuyama et al.	
	AK2*	US-2008/0126554-A1	05-29-2008	SAKAI et al.	
	AL2*	US-2008/0145058-A1	06-19-2008	Fukae et al.	

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		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)			
	BS	JP-9-224069-A	08-26-1997		✓
	BT	JP-6-70383-A	03-11-1994		✓
	BU	JP-4-839-A	01-06-1992		Part Trans
	BV	JP-9-312674-A	12-02-1997		✓
	BW	EP-0 584 464-A1	03-02-1994		
	BX	JP-2002-223466-A	08-09-2002		✓
	BY	JP-2004-94555-A	03-25-2004		ABS
	BZ	JP-58-56200-A	04-02-1983		✓
	BA1	JP-03-098338-A	04-23-1991		ABS
	BB1	JP-03-070059-A	03-26-1991		ABS
	BC1	JP-06-260124-A	08-10-1993		✓
	BD1	JP-05-030150-A	02-05-1993		✓

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	Filing Date	April 28, 2006		
	First Named Inventor	Hitoshi NAOE		
	Art Unit	2462		
	Examiner Name	X. S. Wong		
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		Country Code ² -Number ³ -Kind Code ⁴ (if known)				
	BE1	CN-1167380-A	12-10-1997			ABS
	BF1	JP-07-15485-A	01-17-1995			✓
	BG1	JP-4-269031-A	09-25-1992			Part Trans.
	BH1	JP-3-139935-A	06-14-1991			Part Trans.
	BI1	CN-1394029-A	01-29-2003			ABS
	BJ1	JP-2000-32000-A	01-28-2000			✓
	BK1	JP-2-281830-A	11-19-1990			ABS
	BL1	JP-8-195785-A	07-30-1996			ABS
	BM1	JP-2000-332688-A	11-30-2000			✓
	BN1	JP-10-290348-A	10-27-1998			✓
	BO1	JP-2003-101554-A	04-04-2003			✓
	BP1	JP-2002-232507-A	08-16-2002			✓
	BQ1	JP-2004-64533-A	09-15-2005			✓
	BR1	JP-07-046292-A	02-14-1995			✓
	BS1	JP-1-164140-A	06-28-1989			ABS
	BT1	JP-2001-308955-A	11-02-2001			✓
	BU1	JP-2004-104441-A	04-02-2004			✓
	BV1	JP-02-041050-A	02-09-1990			ABS
	BW1	JP-2006-211425	08-10-2006			✓
	BX1	JP-2003-110579-A	04-11-2003			✓
	BY1	JP-2002-135260-A	05-10-2002			✓
	BZ1	JP-4-271567-A	09-28-1992			Part Trans.
	BA2	JP-9-154176-A	06-10-1997			✓
	BB2	JP-11-4306-A	01-06-1999			ABS

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		Country Code ² -Number ³ -Kind Code ⁴ (if known)					
	BC2	JP-2001-69297-A		03-16-2001			✓
	BD2	JP-2001-60912-A		03-06-2001			✓
	BE2	JP-2000-101605-A		04-07-2000			✓
	BF2	JP-2000-31993-A		01-28-2000			ABS
	BG2	JP-2000-196654-A		07-14-2000			✓
	BH2	JP-2004-41375-A		02-12-2004			ABS
	BI2	JP-8314831-A		11-29-1996			ABS
	BJ2	JP-2000-010745		01-14-2000			✓
	BK2	JP-2004177586-A		06-24-2004			✓
	BL2	JP-11317724-A		11-16-1999			✓
	BM2	JP-62-029238-A		02-07-1987			ABS
	BN2	EP-1 780 984-A1		05-02-2007			
	BO2	WO-2006080357		08-03-2006			ABS
	BP2	JP-2000069403-A		03-03-2000			✓
	BQ2	JP-2001-083948-A		03-30-2001			✓
	BR2	WO-0223885-A1		03-21-2002			
	BS2	JP-2001-145164-A		05-25-2001			✓

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NON PATENT LITERATURE DOCUMENTS				
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		T ²
	CA	Hitoshi NAOE et al., "Standardization of IrSimple, a High-Speed Infrared Communications Protocol", Sharp Technical Journal, Vol. 95, pp. 63-68 February, 2007 URL: http://www.sharp.co.jp/corporate/rd/03/pdf/95_13.pdf	Part	Trans.
	CB	Hitoshi NAOE et al., "IrDA Next Generation High-Speed Infrared Communications Standards "IrSimple", Technical Report of IEICE, The Institute of Image Electronics Engineers of Japan, Vol. 35, pp. 598 - 602, 2006	Part	Trans.
	CC	Mitsuiji MATSUMOTO et al., "An Evaluation of the Optical Wireless System in the Mobile Environment in the Room", Technical Report of IEICE, The Institute of Electronics, Information and Communication Engineers, pp. 1-7, January 28, 2000	Part	Trans.
	CD	Gontaro KITAZUMI et al., "A Proposal of next generation proximity infrared communication - Optimization of IrDA protocol by IrSimple -" Institute of Image Electronics Engineers of Japan, IIEEJ Technical Report, 2 pages year 2005	Part	Trans.
	CE	Hitoshi NAOE et al., "Standardization Proposal of High Efficiency Protocols by using Infrared Data Association", B-10-54, Conference Presentation, Institute of Electronics Information and Communication Engineers (IEICE), p. 344, Technical Reports published September 7, 2005; with PowerPoint Presentation, March 2005	✓	
	CF	Hitoshi NAOE et al., "High Efficiency Protocols (IrSimple) Using Infrared Communication - IrSimple Profile and Protocols at Infrared Data Association", B-15-14, Conference Presentation, Institute of Electronics, Information and Communication Engineers (IEICE), 1 page. Technical Reports published September 7, 2005; with PowerPoint Presentation, March 2005	✓	
	CG	"Infrared Data Association Serial Infrared Physical Layer Specification", Version 1.4, pages i - iv & 1 - 60, May 30, 2001		
	CH	Timothy WILLIAMS et al., "Infrared Data Association Serial Infrared Link Access Protocol (IrLAP)", Version 1.1, pages 1 - 116, June 16, 1996		
	CI	Andy SEABORNE et al., "Infrared Data Association Link Management Protocol (IrLAP)", Version 1.1, pages 1 - 98, January 23, 1996		
	CJ	Stuart WILLIAMS et al., "Infrared Data Association 'Tiny TP': A Flow-Control Mechanism for use with IrLMP" Version 1.1, pages 1 - 17, October 20th, 1996		

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¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached.

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NON PATENT LITERATURE DOCUMENTS				
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²	
	CK	Pat MEGOWAN et al., "Infrared Data Association® (IrDA®) Object Exchange Protocol OBEX™, Version 1.3, pages 1 - 95, January 3, 2003		
	CL	Hitoshi NAOE et al., "Infrared Data Association IrDA Serial Infrared Sequence Management Protocol for IrSimple", Version 1.00, pages 1 - 64, October 14, 2005		
	CM	Hitoshi NAOE et al., "Infrared Data Association IrDA Serial Infrared Link Management Protocol Specification for IrSimple Addition-Errata to IrLMP Version 1.1", Version 1.00, pages 1 - 27, October 14, 2005		
	CN	Hitoshi NAOE et al., "Infrared Data Association IrSimple (Infrared Simple) Profile, Version 1.00, pages 1 - 30, October 14, 2005		
	CO	Hitoshi NAOE et al., "Infrared Data Association IrDA Serial Infrared Link Access Protocol Specification for IrSimple Addition-Errata to IrLAP Version 1.1", Version 1.00, pages 1 - 65, October 14, 2005		
	CP	Kuniko YAMAGUCHI et al., "Implementation of IrSimple for Mobile Phones", B-15-15, Paper for Institute of Electronics, Information and Communication Engineers (IEICE), Communication Society Conference, 2005 p. 618	✓	
	CQ	Hitoshi NAOE et al., "IrSimple Profile and Protocols At Infrared Data Association", B-15-14, IECE Society Conference Abstracts, p. 617, 2005		Part Trans.
	CR	Glade DIVINEY et al., "Infrared Data Association IrLAP Fast Connect (Application Note)" Version 1.0, November 27, 2002, pages 1 - 17		

Examiner Signature	/Xavier S. Wong/	Date Considered	06/05/2010
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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